

Title (en)

Fuel injection system for internal combustion engines

Title (de)

Kraftstoffeinspritzsystem für Brennkraftmaschinen

Title (fr)

Système d'injection de carburant pour moteurs à combustion interne

Publication

**EP 1150002 B1 20030709 (EN)**

Application

**EP 00108835 A 20000426**

Priority

EP 00108835 A 20000426

Abstract (en)

[origin: EP1150002A1] The fuel injection system (1) for an internal combustion engine consists of a pre-fabricated unit including a common rail (6) and the injectors consisting of electromagnetically operated valves (2). Between the valves and the common rail pipes (10) are arranged which are flexible but sealingly connected at their one end to the common rail and the other end to the valves. Preferably between the common rail and the pipes plate springs (11) are arranged to keep the injection valves pressed against the seat in the cylinder head. By using the intermediate pipes with sealings (18,18') at both ends and the stack of plate springs (11), the manufacturing tolerances for the bores in the cylinder heads and for the independently fabricated bores in the common rail can be compensated. <IMAGE>

IPC 1-7

**F02M 55/00**; **F02M 69/46**; **F02M 55/02**

IPC 8 full level

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CPC (source: EP)

**F02M 55/025** (2013.01); **F02M 61/14** (2013.01); **F02M 69/465** (2013.01); **F02M 2200/16** (2013.01); **F02M 2200/856** (2013.01)

Cited by

EP1818535A1; US2013092131A1; EP2072800A1; KR100858643B1; CN115280011A; EP4102049A4; US7469680B2; US7802560B2; US7712452B2; US7083203B2; WO2007040850A1; WO2008150567A1; WO02077439A1; WO2009058283A1

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